

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	751	264/141	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 07:46
S2	77	264/141 and starch	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 10:41
S3	8	"5849233"	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 09:51
S4	117	264/141 and ((solubility soluble) with water)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 10:23
S5	43	(264/141 and ((solubility soluble) with water)) and starch	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 10:16
S6	1	"5527852".URPN.	USPAT	OR	ON	2004/06/08 10:22
S7	1	"5527852".URPN. and ((solubility soluble) with water)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 07:00
S8	12	("4007152"   "4010307"   "4110494"   "4131581"   "4617239"   "4844828"   "5032337"   "5057570"   "5212228"   "5273824"   "5308911"   "5349008").PN.	USPAT	OR	ON	2004/06/08 10:23
S9	11	((("4007152"   "4010307"   "4110494"   "4131581"   "4617239"   "4844828"   "5032337"   "5057570"   "5212228"   "5273824"   "5308911"   "5349008").PN.) and ((solubility soluble) with water)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 10:33
S10	358	"264"/\$ and ((solubility soluble) with water with starch) and extru\$5	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 10:46
S11	12	("264"/\$ and ((solubility soluble) with	US-	OR	ON	2004/06/08

		water with starch) and extru\$5) and gelatinize	US- PGPUB; USPAT; EPO; DERWENT			10:34
S12	2	"5849233".pn.	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 10:41
S13	144	("264"/\$ and ((solubility soluble) with water with starch) and extru\$5) and (food edible)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 11:08
S14	10	((("264"/\$ and ((solubility soluble) with water with starch) and extru\$5) and (food edible)) and gelatinize	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 10:46
S15	75	("264"/\$ and ((solubility soluble) with water with starch) and extru\$5) and (food edible) not container	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 11:08
S16	2	"3870609".URPN.	USPAT	OR	ON	2004/06/08 11:33
S17	12	"5788939".URPN.	USPAT	OR	ON	2004/06/08 11:34
S18	10	("2179181"   "3447939"   "3447956"   "3508941"   "3870609"   "4486585"   "4530999"   "4851522"   "5094690"   "5330567").PN.	USPAT	OR	ON	2004/06/08 11:34
S19	7	"4673698".pn. "4600739".pn. "4677145".pn. "4683655".pn.	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2004/06/08 11:36
S22	17	"3956690".pn. "5480669".pn. "4465702".pn. "3137592".pn. "4377440".pn. "6247394".pn. "6383545".pn. "6415708".pn. "6422135".pn.	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/26 15:00
S23	2	"4465702".pn.	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/26 15:01
S24	6	((moisture with barrel) same extru\$4) and (cold with soluble with starch)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/03/22 14:55
S25	2	S24 and hydroxyalkyl	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/26 15:00
S26	1	S24 and carbon	US- PGPUB;	OR	ON	2005/01/26 15:00

			USPAT; EPO; DERWENT			
S27	0	("3956690".pn. "5480669".pn. "4465702".pn. "3137592".pn. "4377440".pn. "6247394".pn. "6383545".pn. "6415708".pn. "6422135".pn. ) and (carbon hydroxyalkyl)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/26 15:00
S28	0	"4465702".pn. and (carbon hydroxyalkyl)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/26 15:02
S29	2	"3067064".pn.	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/26 15:02
S30	2	"2464081".PN.	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/27 07:25
S31	2	"4465702".pn.	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2005/12/13 11:06
S32	2	"6284359".pn.	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2005/12/13 11:06
S33	4	S31 S32	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2005/12/13 11:06
S34	2	"09863928"	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/01/04 11:22
S35	1	"09/863928"	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/01/04 13:24
S36	258	264/177.11	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/01/04 13:24
S37	31	S36 and starch	US- PGPUB; USPAT;	OR	ON	2006/01/04 13:39

			EPO; DERWENT			
S38	10	("3137592"   "3753729"   "4072535"   "4218350"   "4567055"   "4954178"   "5032337"   "5035930"   "5043196").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2006/01/04 13:31
S39	4	("5849233").URPN.	USPAT	OR	ON	2006/01/04 13:35
S40	20	("3611487"   "3992500"   "4107787"   "4798473"   "5096046"   "5096638"   "5518677"   "5776281"   "5811038"   "5938994"   "5958316"   "6011092"   "6143811"   "6180257"   "6210792"   "6235816"   "6255368"   "6265037"   "6280667").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2006/01/04 13:36
S41	3	S40 and starch	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/01/04 13:39
S42	5	("3067468"   "4655840"   "4992100"   "5154864").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2006/01/04 13:40
S43	12	("3117014"   "3137592"   "3243308"   "3265509"   "3891624"   "4454268"   "4673438"   "5043196").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2006/01/04 13:41
S44	63	("5275774").URPN.	USPAT	OR	ON	2006/01/04 13:57
S45	0	("5316717").URPN.	USPAT	OR	ON	2006/01/04 14:04
S46	4	((("5035930" or ("5043196"))).PN.	US- PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/01/04 14:59
S47	2	("3265510").PN.	US- PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/01/04 15:20
S48	133	starch same (particle with distribution with weight)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/03/22 16:30
S49	27	S48 and (cold with water)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/03/22 14:57
S50	10	starch same (particle with distribution with weight with ("180" "270"))	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/03/22 16:57
S51	51	("4072535").URPN.	USPAT	OR	ON	2006/03/22 16:07

S52	13	starch same (particle with distribution with ("180" "270"))	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/03/22 16:30
S53	24	starch same (particle with distribution with weight with ("80" "180" "270"))	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/03/22 17:05
S54	10	S53 and solubility	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/03/22 17:05
S55	51	("4072535").URPN.	USPAT	OR	ON	2006/03/23 10:07
S56	22	S55 and hydroxypropyl	USPAT	OR	ON	2006/03/23 10:24
S57	9	("4072535"   "4305502"   "4371516"   "4863655"   "5035930"   "5043196"   "5286769"   "5405564"   "5849233").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/23 10:19
S58	206	hydroxypropyl with (particle adj size)	USPAT	OR	ON	2006/03/23 10:25
S59	54	S58 and extrud\$4	USPAT	OR	ON	2006/03/23 10:26
S60	29	S59 and (solubility)	USPAT	OR	ON	2006/03/23 10:26
S61	26	hydroxypropyl with starch with (particle adj size)	USPAT	OR	ON	2006/03/23 10:26
S62	4	S61 and extrud\$4	USPAT	OR	ON	2006/03/23 10:26
S63	1	S62 and (solubility)	USPAT	OR	ON	2006/03/23 11:14
S64	32	("2707154"   "2805977"   "3637772"   "4038434"   "4182330"   "4186465"   "4259323"   "4290426"   "4559237"   "4767627"   "4839177"   "4851232"   "4871548"   "4931285"   "5007790"   "5024842"   "5112817"   "5256440"   "5389380"   "5443843"   "5486365"   "5534263"   "5582837"   "5643909"   "5707649"   "5780057"   "5800834"   "5824638"   "6120803").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/23 11:14
S65	0	S64 and (cold with water with solubility)	USPAT	OR	ON	2006/08/07 07:00
S66	0	S64 and (cold with solubility)	USPAT	OR	ON	2006/03/23 11:14
S67	15	S64 and (solubility)	USPAT	OR	ON	2006/03/23 11:14
S68	0	("6635281").URPN.	USPAT	OR	ON	2006/03/23 11:17
S69	9	((("4704285") or ("3137592") or ("2464081") or ("3159505"))).PN.	US-PGPUB; USPAT; EPO;	OR	OFF	2006/03/23 11:37

			DERWENT			
S70	758	(cold adj water adj solubility)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 11:37
S71	126	S70 and hydroxypropyl	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 11:37
S72	71	S71 and (particle near2 size)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:19
S73	38	S72 and extrud\$4	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 11:38
S74	5	("3493382"   "3615715"   "3819610").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2006/03/23 12:59
S75	88	("4076846").URFN.	USPAT	OR	ON	2006/03/23 13:09
S76	41	S75 and (particle adj size)	USPAT	OR	ON	2006/03/23 13:13
S77	19	("4076846"   "4465702"   "4592795"   "4863655"   "5057157"   "5160368"   "5320669"   "5321064"   "5354621"   "5397834"   "5446078"   "5523293"   "5545450"   "5549859"   "5580624"   "5618341"   "5660900"   "5665152"   "5736586").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2006/03/23 13:13
S78	10	S77 and (particle adj size)	USPAT	OR	ON	2006/03/23 13:17
S79	9	("5922379").URFN.	USPAT	OR	ON	2006/03/23 13:16
S80	3	S79 and (particle adj size)	USPAT	OR	ON	2006/03/23 13:17
S81	758	(cold adj water adj solubility)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:21
S82	126	S81 and hydroxypropyl	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:21
S83	16	S82 and ((particle near2 size) with	US-	OR	ON	2006/03/23

		distribution)	PGPUB; USPAT; USOCR; EPO; DERWENT			13:22
S84	49004	(water adj solubility)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:21
S85	7810	S84 and hydroxypropyl	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:26
S86	777	S85 and ((particle near2 size) with distribution)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:23
S87	246	S86 and extrud\$4	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:22
S88	12	S87 and gelatinized	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/08/07 07:01
S89	48	S85 and ("80" adj mesh)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 14:19
S90	69	((("80" "270") adj mesh) same hydroxypropyl	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:50
S91	19	("4076846"   "4465702"   "4592795"   "4863655"   "5057157"   "5160368"   "5320669"   "5321064"   "5354621"   "5397834"   "5446078"   "5523293"   "5545450"   "5549859"   "5580624"   "5618341"   "5660900"   "5665152"   "5736586").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2006/03/23 13:46
S92	9	("5922379").URPN.	USPAT	OR	ON	2006/03/23 13:49
S93	11	((("80" "270") adj mesh) same hydroxyalkyl	US- PGPUB; USPAT; USOCR;	OR	ON	2006/03/23 13:51

			EPO; DERWENT			
S94	157	(mesh) same hydroxyalkyl	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:52
S95	43	(particle adj size) same (mesh) same hydroxyalkyl	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 14:14
S96	35	S95 not S93	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:52
S97	160	(particle adj size) same (micron) same hydroxyalkyl	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 13:55
S98	4	("4144322"   "4152420"   "4282204"   "4627977").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2006/03/23 14:15
S99	1001	(cold with water with soluble with starch)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 14:20
S100	4	S99 and (particle adj distribution)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 14:20
S101	198	S99 and mesh	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 14:23
S102	24	S99 and ("80" adj mesh)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 14:21
S103	180	S99 and micron	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/03/23 14:23



S104	2	("4076846").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/04/03 08:59
S105	387	264/211.11	USPAT	OR	ON	2007/04/19 07:48
S106	76	S105 and ((solubility soluble) with water)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 07:00
S107	13	S105 and gelatinized	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/08/07 07:01
S108	6	((("4076846") or ("5455342") or ("5849233"))).PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/08/07 07:11
S109	1	S108 and plasticizer and film	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2006/08/07 07:11
S110	2	"5344692".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/08/07 07:46
S111	392	264/211.11	USPAT	OR	ON	2007/04/19 07:48
S112	13	S111 and gelatiniz\$4	USPAT	OR	ON	2007/12/05 10:53
S113	1464	starch same gelatiniz\$4 same temperature	USPAT	OR	ON	2007/12/05 10:54
S114	828	starch with gelatiniz\$4 with temperature	USPAT	OR	ON	2007/12/05 10:54
S115	267	starch with (gelatiniz\$4 near2 temperature)	USPAT	OR	ON	2007/12/05 10:55
S116	584	(gelatinization adj occur)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2007/12/05 11:28
S117	426	S116 and starch	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2007/12/05 11:29
S118	8083	"150" near2 "175"	US-PGPUB; USPAT;	OR	ON	2007/12/05 11:29

			USOCR; EPO; DERWENT			
S119	0	S117 and ("150" near2 "175")	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2007/12/05 11:29
S120	0	S117 and ("150" near2 "175")	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2007/12/05 11:29
S121	70	S117 and ("150" with "175")	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2007/12/05 11:31
S122	5	((("3265509") or ("4567055")).PN.	US- PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/12/05 11:31
S123	410	(extrud\$4 with starch) same (moisture near3 content)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/05/12 09:58
S124	15	S123 and hydroxyalkyl	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/05/12 09:59
S125	2	("5000783").PN.	US- PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/11/24 12:08
S126	2	("6357446").PN.	US- PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/11/24 12:56
S127	2	("6358446").PN.	US- PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/11/24 12:56
S128	0	(cold water (soluble or solubility) hydroxyalkyl starch (granular or granulated) size (extruder or extrusion or extruded or extruding) barrel die zone gelatiniz\$4 speed).clm.	US- PGPUB	AND	ON	2009/03/18 10:04
S129	7	((("4076846") or ("5455342") or ("5849233")).PN.	US- PGPUB; USPAT; EPO;	OR	OFF	2009/08/21 10:21

			DERWENT			
S130	455	264/211.11	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/01/20 12:41
S131	160	S130 and (264/177.11 264/141 264/40.6)	US- PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/01/20 12:41
S133	2	("7595015").PN.	US- PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/12/01 16:19
S134	1	10/687471	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2011/12/01 16:24
S135	859	264/141	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2011/12/01 16:26
S136	49	S135 and (264/165 264/211.11 426/516)	US- PGPUB; USPAT; USOCR; EPO; DERWENT	OR	ON	2011/12/01 16:26

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S132	2	(film extruded starch hydroxyalkyl barrel die (shaft or screw) (zone or section) gelatiniz\$4 temperature (moisture or humidity)).dm.	US- PGPUB; UPAD	AND	ON	2010/01/20 12:44
S137	2	(film extruded starch hydroxyalkyl barrel die (shaft or screw) (zone or section) gelatiniz\$4 temperature (moisture or humidity)).dm.	US- PGPUB; UPAD	AND	ON	2011/12/01 16:30

2/ 14/ 2012 4:02:41 PM

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